# TRELLCHE M





# SAFETY AND QUALITY STANDARDS

# **TRELLCHEM LIGHT**

Provides protection against hazardous chemicals in liquid, vapor, gaseous and solid form and specially good protection against acids and alkalis. Designed to carry the breathing apparatus inside the suit. Trellchem® Light is fully certified in accordance with the European standard EN 943-1.

## **GARMENT MATERIAL**

The Trellchem® Light material is made of a strong and flexible polyamide fabric, which is coated with PVC on both sides. This construction provides a soft and durable material with good resistance to a wide range of industrial chemicals.

# **COLOUR**

Orange.

## **STANDARDS**

Tested and certified according to EN 943-1.

# TRELLCHE N



Type CV



Type VP1



Туре Т

#### **DESIGN**

Trellchem® Light comes in different designs to fit all user preferences:

- Encapsulating design with hump (type CV or VP1), BA worn inside the suit or
- Non-encapsulating design with face seal and without hump (type T), BA worn outside the suit.
- Encapsulating design for use with external air source (type Freeflow). See separate product sheet.

## **VISOR**

On encapsulating suits the visor is made from a rigid 2 mm impact and chemical resistant PVC. Option of two visors; CV or the larger VP1.

## **FACE SEAL**

The non-encapsulating suits have a rubber face seal which is anatomically designed for optimum safety and comfort. It provides users with a tight, yet perfectly comfortable fit around the face.

#### **ZIPPER**

Strong and durable gastight chloroprene rubber coated zipper. Closing downwards for added safety. The zipper is protected by a splash guard (flap).

#### **VENTILATION**

A ventilation system is included as standard for Trellchem® suits. For the safety of the wearer it provides a constant level of overpressure inside the suit. The Trellchem® regulation valve is made of a chemical resistant material. 3 ventilation rates (2, 30 and 100 l/min) plus zero/off position. Large thumbwheel designed for a good grip. The valve is also available in a passthrough version for use with external air supply. Different types of couplings are available.

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With the **Trellchem® Bayonet glove ring system** it is quick and easy to exchange both inner barrier gloves and outer rubber gloves.



**Trellchem® Mk II regulating valve** for suit ventilation

#### **GLOVES & ATTACHMENTS**

The suit is fitted with Nitrile/Chloroprene rubber gloves in combination with rubber cuffs for added safety. Other glove options are available. The gloves are attached with the Trellchem® Bayonet glove ring system, which offers quick and simple glove exchange.

## **FOOTWEAR & ATTACHMENTS**

Yellow PVC safety boots, fixed with an ergonomically designed ring attachment, which simplifies boot exchange and provides a smooth yet tight fit of suit material around the boot shaft. Alternatively the suit is equipped with a sewn-on sock/bootie in the suit material.

## **SEAMS**

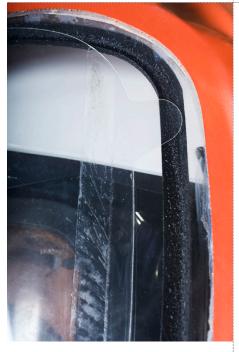
Seams are stitched with a welded-on tape on the outside.

## **ACCESSORIES**

For the EN 943-1 standard to be fulfilled a TC Hood or a Minihood is required to be worn on top of non-encapsulating suits (type T). A Minihood is always delivered with Trellchem® type T suits.

The visor can be equipped with an antifog lens and/ or a tear-off lens. A wide range of other accessories is available for maintenance, storage etc.

# TRELLCHE



### **ANTIFOG LENS & TEAR-OFF LENS**

Attached to the inside of the visor, the antifog lens prevents the visor from becoming foggy. Additionally a tear-off lens can be attached to the outside of the visor to prevent scratches and splashes from aggressive chemical substances. Just tear off for a clean and unobstructed visor!



Trelichem® storage bag

## **MATERIAL PROPERTIES**

PROPERTY	METHOD	RESULT	CLASS*
Abrasion resistance	EN 530, method 2	> 2000 cycles	6
Flex cracking resistance	ISO 7854, method B	> 100000 cycles	6
Flex cracking @ -30°C	ISO 7854, method B	>500 cycles	3
Tear resistance, warp/weft	ISO 9073-4	>40 N	3
Tensile strength, warp/weft	ISO 13934-1	> 500 N	5
Puncture resistance	EN 863	>10 N	2
Seam strength	ISO 5082	> 500 N	6
Resistance to ignition	EN 13274-4, method 3	5 sec.	3

 $<sup>\</sup>ensuremath{^{*}}$  Classifications according to EN 943-1.

# **PERMEATION DATA**

CHEMICAL	BREAKTHROUGH TIME (MIN)

Sodium hydroxide, 40%	>480
Sulphuric acid, 98%	150

For more information about chemical resistance, see the resistance table on www.trellchem.com

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